1627

1600

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/674,962A

DATE: 07/19/2002
TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

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```
      3 <110> APPLICANT: Hauer, Bernhard
      4       Schmid, Rolf D.
      5       Enzelberger, Markus
      6       Minning, Stephan
      8 <120> TITLE OF INVENTION: Novel Peptide Fragments for Purifying Proteins
     10 <130> FILE REFERENCE: 49041/Up
     12 <140> CURRENT APPLICATION NUMBER: 09/674,962A
C--> 14 <141> CURRENT FILING DATE: 2000-11-18
     16 <150> PRIOR APPLICATION NUMBER: PCT/EP99/03469
     18 <151> PRIOR FILING DATE: 1999-05-20
     20 <160> NUMBER OF SEQ ID NOS: 11
     22 <170> SOFTWARE: WordPerfect version 6.1
     25 <210> SEQ ID NO: 1
     26 <211> LENGTH: 10
     27 <212> TYPE: PRT
     28 <213> ORGANISM: Artificial Sequence
     30 <220> FEATURE:
     31 <222> LOCATION: 1..10
     32 <223> OTHER INFORMATION: sequence for purifying proteins
W--> 35 <221> NAME/KEY: unsure
     36 <222> LOCATION: 2
     37 <223> OTHER INFORMATION: Xaa is an amino acid selected from the group consisting of
     38       Ala, Val, Phe, Ser, Met, Trp, Tyr, Asn, Asp and Lys, particularly preferably
     39       Phe, Ser, Asn, Asp and Lys, very particularly preferably Asn.
W--> 41 <221> unsure
     42 <222> LOCATION: 4
     43 <223> OTHER INFORMATION: Xaa is an amino acid selected from the group consisting of
     44       Val, Ile, Phe, Pro, Trp, Tyr, Gln, Glu and Arg, particularly preferably Val,
     45       Ile, Phe, Pro, Gln, Glu and Arg,
     46 <223> OTHER INFORMATION: very particularly preferably Gln, Glu and Arg.
W--> 48 <221> NAME/KEY: unsure
W--> 49 <222> LOCATION: 5
W--> 50 <223> Xaa is an amino acid selected from the group consisting of
     51       Gly, Ile, Thr, Met, Trp, Tyr, Asn, Gln, Asp, Glu, Lys, Arg and His,
     52       particularly preferably Gly, Ile, Thr, Met, Trp, Tyr, Asn Asp, Glu, Arg and
     53       His,
     55 <223> OTHER INFORMATION: very particularly preferably Gly, Thr and Tyr.
W--> 57 <221> NAME/KEY: unsure
W--> 58 <222> LOCATION: 6
W--> 59 <223> Xaa is an amino acid selected from the group consisting of
     60       Val, Phe, Pro, Cys, Met, Trp, Asn, Glu, Arg and His, particularly preferably
     61       Val, Phe, Cys, Met, Trp, Asn, Arg and His, very particularly preferably Asn
     62       and Arg.
```

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PATENT APPLICATION: US/09/674,962A TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

W--> 64 <221> NAME/KEY: unsure
W--> 65 <222> LOCATION: 8
W--> 66 <223> Xaa is an amino acid selected from the group consisting of
67 Gly, Ser, Cys, Met, Trp, Asn, Glu, Lys and Arg, particularly preferably Gly,
68 Ser, Cys, Met, Asn, Glu, Lys and Arg, very particularly preferably Gly and
69 Lys.
W--> 71 <221> NAME/KEY: unsure
W--> 72 <222> LOCATION: 9
W--> 73 <223> Xaa is an amino acid selected from the group consisting of
74 Gly, Ser, Cys, Met, Trp, Asn, Glu, Lys and Arg, particularly preferably Gly,
75 Ser, Cys, Met, Asn, Glu, Lys and Arg, very particularly preferably Gly and
76 Lys.
W--> 78 <400> 1
W--> 80 His Xaa His Xaa Xaa Xaa Cys Xaa Xaa Cys
81 1 5 10
83 <210> SEQ ID NO: 2
84 <211> LENGTH: 10
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Sequence for purifying proteins
91 <400> SEQUENCE: 2
93 His Gln His Glu Gly Arg Cys Lys Glu Cys
94 1 5 10
96 <210> SEQ ID NO: 3
97 <211> LENGTH: 10
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Sequence for purifying proteins
104 <400> SEQUENCE: 3
106 His Asn His Arg Tyr Gly Cys Gly Cys Cys
107 1 5 10
109 <210> SEQ ID NO: 4
110 <211> LENGTH: 10
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Sequence for purifying proteins
117 <400> SEQUENCE: 4
119 His Arg His Gly Thr Asn Cys Leu Lys Cys
120 1 5 10
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 10
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Sequence for purifying proteins
130 <400> SEQUENCE: 5

RAW SEQUENCE LISTING DATE: 07/19/2002
PATENT APPLICATION: US/09/674,962A TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

```
     132 His Ile His Gln Ser Asn Cys Gln Val Cys
     133 1               5                   10
     136 <210> SEQ ID NO: 6
     137 <211> LENGTH: 59
     138 <212> TYPE: DNA
     139 <213> ORGANISM: Artificial sequence
     141 <220> FEATURE:
     142 <221> NAME/KEY: unsure
     143 <222> LOCATION: 1..59
     144 <223> OTHER INFORMATION: primer
     145 <223> OTHER INFORMATION: n is a, g, c, t or u
W--> 147 <400> 6
W--> 149 gcaataccat ggggcatnnn catnnnnnnn nntgtnnnnn ntgtgtgagg aagggcgag      59
     151 <210> SEQ ID NO: 7
     152 <211> LENGTH: 17
     153 <212> TYPE: DNA
     154 <213> ORGANISM: Artificial sequence
     156 <220> FEATURE:
     157 <223> OTHER INFORMATION: primer
     159 <400> SEQUENCE: 7
     161 cagttggaat tctagag                                              17
     164 <210> SEQ ID NO: 8
     165 <211> LENGTH: 47
     166 <212> TYPE: DNA
     167 <213> ORGANISM: Artificial sequence
     169 <220> FEATURE:
     170 <223> OTHER INFORMATION: primer
     172 <400> SEQUENCE: 8
     174 gcaataccat ggggcatcat catcatcatc atgtgaggaa gggcgag                47
     177 <210> SEQ ID NO: 9
     178 <211> LENGTH: 17
     179 <212> TYPE: DNA
     180 <213> ORGANISM: Artificial sequence
     182 <220> FEATURE:
     183 <223> OTHER INFORMATION: primer
     185 <400> SEQUENCE: 9
     187 cagttggaat tctagag                                              17
     189 <210> SEQ ID NO: 10
     190 <211> LENGTH: 44
     191 <212> TYPE: DNA
     192 <213> ORGANISM: Artificial sequence
     194 <220> FEATURE:
     195 <223> OTHER INFORMATION: primer
     197 <400> SEQUENCE: 10
     199 gcaataccat ggggcatatt cataatcttg attgtcctga ttgt                  44
     201 <210> SEQ ID NO: 11
     202 <211> LENGTH: 10
     203 <212> TYPE: PRT
     204 <213> ORGANISM: Helicobacter pylori
```

RAW SEQUENCE LISTING DATE: 07/19/2002
PATENT APPLICATION: US/09/674,962A TIME: 14:42:47

Input Set : A:\674962sq
Output Set: N:\CRF3\07192002\I674962A.raw

206 <400> SEQUENCE: 11
208 His Ile His Asn Leu Asp Cys Pro Asp Cys
209 5 10

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/19/2002
PATENT APPLICATION: **US/09/674,962A** TIME: 14:42:48

Input Set : **A:\674962sq**
Output Set: **N:\CRF3\07192002\I674962A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,4,5,6,8,9
Seq#:6; N Pos. 18,19,20,24,25,26,27,28,29,30,31,32,36,37,38,39,40,41

VERIFICATION SUMMARY DATE: 07/19/2002
PATENT APPLICATION: **US/09/674,962A** TIME: 14:42:48

Input Set : **A:\674962sq**
Output Set: **N:\CRF3\07192002\I674962A.raw**

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:41 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:48 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:49 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:57 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:58 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:59 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:64 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:65 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:66 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:71 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:72 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:78 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:147 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0